≈ EnOcean

USB 300/400J/500U is a small USB stick which connects gateways and smart home servers to the world of EnOcean based radio products.

The USB stick is equipped with the TCM transceiver gateway module. The USB stick receives and sends all EnOcean radio telegrams according to the specified EnOcean Equipment Profiles (EEP). Radio telegrams are converted to a serial interface (EnOcean Serial Protocol 3) and transferred via USB interface.

Features:

- Full ESP3 feature set
- Power, Rx and Tx LED
- Optimized PCB antenna
- Integrated security handling
- Virtual COM Port driver (FTDI)

Sample image: USB 300 / USB 500U (white housing)

Sample image: USB 400J (transparent housing)

The USB stick is designed and produced as white label OEM product. Labels and housing can be changed to specific requirements of OEM manufacturers (original distributors).

TYPE	ORDERING CODE
USB 300	**S3004-K300** white
USB 400J	**S3064-K400** transparent
USB 500U	**S3054-K500** white

Features overview

Frequency/antenna	USB 300: 868.300 MHz / PCB antenna USB 500U: 902.875 MHz / PCB antenna USB 400J: 928.350 MHz / PCB antenna
Data rate	125 kBit/s
Modulation type	USB 300: ASK 868 MHz[1] USB 500U: FSK 902 MHz[1] USB 400J: FSK 928 MHz[1]
Receiver Sensitivity (at 25°C)[2]	USB 300: typ. −96 dBm[2] USB 500U: typ. -98 dBm[2] USB 400J: typ. -95 dBm[2]
Receiver Category (RED, EN 300 220)	2 (standard performance)
Output Power	USB 300: max. 6,7 dBm (radiated) USB 500U: typ. 1 dBm (conducted) USB 400J: typ. 0 dBm (conducted)
Dimensions (incl. cap)	70 x 23 x 9 mm
OEM label size	39 x 12 mm
USB connector	Typ A
Operating temperature	-20°C to +50°C (max. 90% r.h.)
Radio Regulations	USB 300: CE (EU) / UKCA (UK) USB 500U: FCC (US) / ISED (CA) USB 400J: MIC/ARIB (Japan)

1) According to ISO/IEC 14543-3-1x

2) 0.1% telegram error rate (based on the combination of 3 received sub-telegrams).
   USB extension cable is recommended for best performance.